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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,746	09/29/2006	Ingmar Hoerr	22122-00006-US1	9342
23416 CONNOLLY	7590 04/06/200 BOVE LODGE & HUT	EXAM	EXAMINER	
P O BOX 2207			MARVICH, MARIA	
WILMINGTO	N, DE 19899		ART UNIT	PAPER NUMBER
			1633	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No.	Applicant(s)	Applicant(s)		
10/580,746	HOERR ET AL.			
Examiner	Art Unit			
MARIA B. MARVICH	1633			

Office Action Summary	Examiner	Art Unit				
	MARIA B. MARVICH	1633				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is generalled above, the minorium statutory period with a state of the provision of 37 CFR 1.1 after to reply within the set or extended period for reply with by statistic. - Taburs to reply within the set or extended period for reply with by statistic and the set of the provision of t	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim- till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	I. nely filed the mailing date of this of (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar	action is non-final.	secution as to the	e merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	, , , .					
· _						
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 20 is/are withdrawn from consideration. 						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-19</u> are subject to restriction and/or e	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
 Certified copies of the priority documents have been received. 						
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
Information Disclosure Statement(s) (PTO/SE/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Claims 1-20 are pending in this application and subject to the following restriction. Claim 20 has not been subjected to restriction as it is directed to "use of" products, which is not a recognized class of inventions under 35 USC 101.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims I-4 and 6-17, drawn to method for immunostimulation comprising administration of an mRNA encoding at least one antigen of a pathogen in combination with one of a cytokine, a cytokine mRNA, an adjuvo-viral mRNA, a CpG and an adjuvant RNA.

Group II, claims 1-17, drawn to method for immunostimulation comprising administration of an mRNA encoding at least one antigen of a tumor in combination with one of a cytokine, a cytokine mRNA, an adjuvo-viral mRNA, a CpG and an adjuvant RNA.

Group III, claims 18 and 19, drawn to an mRNA encoding at lest one antigen of a pathogen in combination and a cytokine, a cytokine mRNA, an adjuvo-viral mRNA, a CpG and an adjuvant RNA.

Group IV, claims 18 and 19, drawn to an mRNA encoding at lest one antigen of a tumor in combination and a cytokine, a cytokine mRNA, an adjuvo-viral mRNA, a CpG and an adjuvant RNA

PCT Rule 13.2 requires that unity of invention exists only when the shared same or corresponding technical feature is a contribution over the prior art. The inventions listed as Group I-IV do not related to a single general inventive concept because they lack the same or

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corresponding technical feature. The "unifying feature" of Group I-IV is a RNA encoding an antigen in combination with one of and a cytokine, a cytokine mRNA, an adjuvo-viral mRNA, a CpG and an adjuvant RNA, which is shown by Schirmacher et al. (Gene Therapy, 2000, Vol 7, pages 1137-1147, see e.g. page 1138, col 1, ¶ 1), to lack novelty of inventive step and does not make a contribution over the prior art.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1. The claims are deemed to correspond to the species listed above in the following manner:

Should applicants elect Group I-IV, the claims include a genus of disorders to be treated.

Claim 1 is generic, the species as recited in 17. As well the groups comprise a genus of cytokines wherein Claim 1 is generic and the species are recited in claim 6.

Should applicants elect Group II or IV, the claims recite a genus of tumor antigens wherein claim 1 is generic and claim 5 comprises a number of species. Applicants must elect one species from each of these groups.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the species are structurally distinct and do not have a common structure.

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The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provision of MPEP 821.04. Process claims that depend for or otherwise include all the limitations of the patentable produce will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendment submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirements for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 USC 101, 101, 103 and 112. Until an elected product claim is found allowable, an otherwise proper restriction between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claim in light of *In re Ochiai, In re Brouwer* and 35 USC 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in loss of the right to rejoinder.**

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Further, note that the prohibition against double patenting rejections of 35 USC 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP 804.01.

Applicant is reminded that upon cancellation of claims to a non-elected inventions, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria B. Marvich, PhD whose telephone number is (571)-272-0774. The examiner can normally be reached on M-F (7:00-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach, PhD can be reached on (571)-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Maria B Marvich, PhD Examiner Art Unit 1633

/Maria B Marvich/ Primary Examiner, Art Unit 1633